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CENTRAL INTELLIGENCE AGENCY	. 25X1
INFORMATION REPORT	
COUMTRY USSR SUBJECT Critical Comments on Soviet Articles on Photographic	
Chemistry and Physics	
	DATE DISTRIS MAY 53
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I Titles and Evaluations of Soviet Papers on Physics R	
1. "Effect of the Color of the Light Illuminating One E the Other Eye", G K Gurtovoi and S V Krakov, Doklady 391-92, No 2, 1951.	ye upon the Reaction of Akad Nauk UBSR 78:
1. "Effect of the Color of the Light Illuminating One E the Other Eye", G K Gurtovoi and S V Krakov, Doklady 391-92. No 2, 1951. The prima facie indications are that the work in thorough. No great ingenuity would be required original idea to investigate the matter. So fawork has been done elsewhere, so there is no be reliability of the work. The reported effect in other workers can hardly be expected to digress studies in order to confirm these results. How noted that, if true, the results indicate that in a noisy darkroom, submarine, or airplane, the results indicate that in a noisy darkroom, submarine, or airplane, the results indicate that in a noisy darkroom, submarine, or airplane, the results indicate that the submarine of the probably new in the field as	is original and is except for the ar as we know, no similar asis for judging the is so "queer" that s from more conventional wever, it should be people would see better han in quiet surround- nd working under
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2. "Th	Nature of F	 - hotolumines	cence of Sil	ver Halide Sub	limate Phosphors	
Act	ivated with Sics USSR 21:	Bilver". K V	Shalimova a	nd A V Relkina	, J Exp and Theoret	
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2 57Dh	atoal actric	 	and Ontical	Absorption of	Thallium Halide Salt	s",
E K	Putseiko, Do	klady Akad	Nauk USSR 78	: 453-456, No	3, 1951.	•
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	mark annea	e to be fai	r in quality	and thorough	ts. The present	
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	haraWechner'i	Law for Co	lor-Sensiti:	e Receptors of	f the Eye', G N Rauti	lan,
Dok	lady Akad Na	uk USSR 79:	65-68, No 1	., 1951.		
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:	instrument	he uses Was	invented b	s field since y Deminka (pri	or to 1930) who	
:	last appea	red as junio	or author wi	th Rautian in	1949.	
5. "No	n-Linear Pho	toconductivi	ty of PbS-Pi	notoresistance	s", V E <u>Lashkarev</u> , ysics USSR 19:	
1 1 88	7-898, No 10,	1949.	DEMB, U.EMP	and incorde in	()) () () () () () () () () (
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6. "E:	ffect of Wate Night Sky"	r Vapor, Car	rbon Monoxid <u>skii</u> , Dok la d	e, and Natroge y Akad Hask UE	n on the Radiation of SER 28: 669-672, No.	4, 1951.
25X	1. The general	l over-all	quality is f	airly high. I	The subject has determined, the	
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7. "Effe Dokla	ective Coefficient of ady Akad Nauk USSR 80:	Transparency of the A 599-601, No 4, 1951	tmosphere, S I S	ivkov,
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8 "Deta V T : 25X1 No 2	lukashenya and V I Kra	of the Night Sky from asovskii, Doklady Akad	9500 A to 12,000 Nauk USSR 79: 2	A", 241-244,
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9. "Mea and	E N Pavlova, Doklady	riolet Radiation of the Mad Nauk USSR 79:	61-964, No 6, 195	l
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10. "Dur T P	ation of the Excited Belikova, Doklady Aka	State of Some Phospho d Nauk USSR 82: 713-	rs", K V <u>Shalimov</u> 716, No 5, 1952.	a and
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ll. "Mol Dokl	ady Akad Nauk USBR 83	Light in Liquids", G : 203-206, No 2, 195	2.	
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11	Titles and Evaluations of Soviet Papers on Chemistry Rel	Lating to Photography
1. 25X1	"Method of Paramagnetic Resonance Absorption in Magneto- Compounds", B M Kozyrev, Doklady Akad Nauk USSR 81: 427	-Chemistry of Organic 7-430, No 3, 1951.
	This is an interesting paper. The work is important well planned and carried out. A lot of work along going on in this country, using microwaves instead frequencies. We do not know the author.	these lines is
	"Merocyanine Dyes Prepared from Rhodanine. Part I. The 5-(3-Ethylbenzthiazolin-2-Ylidene-Ethylidene)-2-Methylth Methylsulphate", Z P Sytnik, I I Levkoev, and M V Deichm Khimii 21: 768-772, No 5, 1951.	iiothiazolid-4-One Meth
	Originality and ingenuity are medium. The reliabilisince conflicting reports in the same subject matter by VanDormall, Bull Soc Chim Belg 58: 403-411, 194 des merocyanines quaternies". Sythik and Levkoev at this field and usually pretty good.	er are reported 49. "Instabilite
3.	"Tautomerism and Isomerism of 2-Nitroindandione-1,3," G S Giller, Doklady Akad Nauk USSR 79: 977-980, No 6, 199	Vanag. Ya Eidus, and
25X1	This paper seems to contain reasoned argument base facts. Whether or not the conclusions are fully gropen to contest. The authors have carefully avoid to resonance theory, which is unpopular in the USS is old in the field, having done his graduate work do not know the other two authors.	ustified is ed any appoal R right now. Vanag
	"Vinylogs of Malonaldehyde", I L Knunyants and A K Shill Khimii 18: 184-189, No 2, 1948.	legodskii, Zh Obschei
25X1	Originality, ingenuity, thoroughness and reliabili- authors are old in the field.	ty are good. The
5.	"Color Reactions with Sulfates, Phosphates, and Tungsta. Doklady Akad Nauk USSR 77: 61-65, No 1, 1951.	tos", V I <u>Kuenetsov</u> ,
25X	The paper can be considered a fair contribution to literature. The experiments appear to be well tho do not know of the author's work in this field but that he is a fairly new worker.	ught out. We
6.	"Electron Diffraction Study of Cellulose (Ramie Fiber)" I G Sinitskaya, Doklady Akad Nauk USBR 80: 213-214, No	, A L <u>Zaides and</u> 2, 1951.
25)	Originality and ingenuity are average. Thoroughnersliability are poor. The authors are fairly new They have been junior authors on other papers regardectron microscope.	to the field.
₹. 25X	"Cl-Br-Ni Color Reactions", V 1 Kuznetsov, Doklady Akad 281-284, No 2, 1951. The subject matter is treated logically and intell the reactions described may be useful. The paper respect to originality and ingenuity, and adequate to thoroughness and reliability. We do not know owork in this field but would judge that he is a face	igently, and rates good with with respect of the author's
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9•	"Chromatogr Isosters",	aphic Method o	of Determin J Appl Ch	ing Adsorpt mem 24: 661	ion Isoth -666, No	erms, Isobars, and 6, 1951.
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	Acetate and 754-760, No.	l Its Films", 7, 1951. (A A Freima	n and v A Si	icher bako	sition of Cellulose va, J Appl Chem USSR 24:
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13.	UBBR 80:	899-902, No 6	, 1921. F			, Doklady Akad Nauk
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14. 25X	and E L Z	of Binary Li prina, Doklady	quid Syste Akad Nauk	ms in the Cr USSR 80: 9	itical R 903-905, 1	egion", V K <u>Bemenchenko</u> No 6, 1951.
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³⁵ . 25X1	the	ect of Ultrasonic Vibrations Upon Gelatin and Amino Ad Pressure of Air", N.A. <u>Khenokh and E.M. Lapinskaya</u> , Doki 80: 921-924, No 6, 1951.	cid Solutions in lady Akad Nauk
		This brief paper is a continuation of work in the fit sonics reported in previous papers by one of the auti not seem that the originality or ingenuity is particular worthy. It is not possible to assess the reliability repetition of the work, but it would seem that more results might have been stained with more careful conditions of the experiments. We have no information the experience of the authors in this field.	nors. It does ularly note- y without a meaningful htrol of the
	IS	ory of True Solutions", A A Zhukhovitskii, B N Finkel' Kulikov, Doklady Akad Nauk USSR 81: 227-230, No 2, 19	shtein and
25X ⁻	I	This paper is virtually identical with the earlier we Fowler and Guggenheim, to whom no reference is given, knowledge of the authors;	ork of We have no
17.	"Law P A I	of Development of Long-Range Elastic Deformation", L Rebinder, Doklady Akad Nack USSR 81: 239-242, No 2, 1	V Chumakova and
25X	(1	This is an excellent paper; it is highly original wit ingenuity shown here. The work is thorough and relisauthors are experienced in this field.	th a marked able. The
18.	"Crys	tal Structure of Iodoform", A I <u>Kitaigorodskii</u> , T L <u>K</u> u T <u>Struchkov</u> , Doklady Akad Nauk USSR 78: 1161-1164,	notsyanova No 6, 1951.
25X	1	This appears to be good work. The problem studied di any special originality or ingenuity, but well-known been used, apparently with care, to yield results whi considered reliable, at least as far as can be judged report itself. We have no knowledge of the authors.	methods have
19.	"Diff	Tusion of Polymers in Solutions", S E Bresler, S A Paventh Physics USSR 21: 1061-1065, No 9, 1951.	lova, and P & Finogenov,
25X	1	The quality of the work is good, as regards originali thoroughness, and reliability. Bresler has been publ 1939, but we have no knowledge of the other two author	ishing since
20.	7,7'-	stigations in the Field of Cyanine Dyes. VI On the Pr Bis-(Dimothylamine)-thiacarbocyanines", I I Levkoev a schei Khimii 21: 2050-2055, No 11, 1951.	operties of nd B S <u>Portnaya</u> ,
25X		Levkoev is an old hand and turns out pretty good work present work is routine and of interest but not sensa quality is equal to that of a paper published in the American Chemical Society.	tional. The
25X1	вир	lems of Kinetics and Catalysis. IV Homogeneous and anilov, Commission on Catalysis of the Department of SSR Academy of Science, Moscow 6: 309-318, 1949.	Ionic Catalysis". Chemical Sciences of
		Danilov has been working in the field, particularly o of aldehydes, for many years. He and Venus-Danilova, his wife, are experts in this field. One must note, they do not apply the modern concepts of reaction kind	presumably however, that
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		their work can be considered a source of information, they do not treat their material as exhaustively as the English and American schools of authors have handled similar subjects.
1	Struc	udy with an Electron Microscope of the Effect of Electrolytes upon the ture of Collagen", A L Zaides and S L Pupko, Doklady Akad Nauk USSR 80: 48, No 4, 1951.
25X1		The authors have previously published a considerable amount in this field. This paper extends their earlier work, adding significantly to it. As far as we can tell, the work is good. No great degree of originality or ingenuity is shown, but the experimental results and their interpretation seem to be reliable. The job is not a thorough one, but presumably the research in this field is being continued.
	Vecet	co-Acid Composition of Protein Preparations Obtained by Treating Some cable and Animal Proteins with Alkalis", M I Levyant, V N Grekhovich. E Plotnikova, Doklady Akad Nauk USSR 80: 649-652, No 4, 1951.
25X	13.	Some originality is shown in this paper, and ingenuity, thoroughness and reliability are fair. The authors are experienced in this field of science.
24 .	"Heig	th of the Potential Barrier in Hydrogen Bonds of Benzoquinhydrone", prodakii and I P Gragerov, Doklady Akad Nauk UBSR 79: 277-279, No 2, 1951.
25X	(1	This seems to be good work, well-conceived and planned. We have no basis for judging its thoroughness or reliability. Brodskii has been publishing in this field of science for many years. Gragerov seems to be a newcomer, although he published one paper on a closely related subject two or three years ago.
25.	"Vapo 1946	origation of Solids", M K Baransey, J Phys Chem USSR 20: 399-402, No 4-5,
25X		Baranaev has been in the front rank of workers in this field for the past fifteen years. His work, like that of most others attempting to measure accommodation coefficients, suffers from too simple an experimental set-up. This is a useful guide to better work.
26.	"Chai	nge in the Form of Protein Molecules in Urea Solutions", A G Pasynakii R S Chernyak, Doklady Akad Nauk USSR 79: 1001-1004, No 6, 1951.
25X1		Some originality and ingenuity are shown in this paper. It is fairly thorough and the reliability is good. The authors are experienced in this field of science.
27.	"Ste	plike Character of Denaturation of the Protein Molecule", V A Belitaer A B Tsyperovich, Doklady Akad Nauk USSR 83: 257-259, No 2, 1952.
25X ⁻		This paper seems lacking in actual experimental detail. The main thesis of the paper is one that we believe protein chemists would have expected. We are not familiar with the authors.
28.	"Inv G A 1952	
25X	(1	The value of this paper does not lie in its originality or ingonuity. Assuming the reliability of the data, it does offer evidence of dimer formation in the surface layer by certain proteins in the presence of Sudan III dye. The names of the authors are not, to us, familiar in the field of surface chemistry. 25X1
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29.	"Crys	tallization of Resynthesized Protein", S E Brosler and by Akad Nauk USSR 84: 1013-1016, No 5, 1952.	N A Selezneva,
25X1		The work reported here is of a definitely new character experiments are very interesting. We have no knowledge whether the authors are or are not experienced in this	
30.	11 D	active Indexes of the Higher Normal Paraffin Hydrocarbo dy Akad Nauk USSR 81: 1077-1079, No 6, 1951.	
25X ²	1	From the evident internal consistency of the results are parisons from the literature, the work is judged to be and reliable. The report would be better if it includes other published data for comparison. Chemical Abstract papers by this author in 1950 and 1951.	ed the ts lists
31.	"Effe S A G 1951.	ct of Metal Ions upon the Visco-Elastic Characteristics	s of Ethyl Cellulose' 089-1092, No 6,
25X 1	l November	This paper, as is the case with many of the Russian pay contain a large amount of actual experimental data. To to the literature, outside of Russia, bearing on the pay reported are rather meager; and some with which we are are definitely emitted; there may be others. Since the is an old one, we would definitely discount the work of of originality.	henomena familiar e phenomenon n the score
32.		In Mechanism of Decomposition of H ₂ O ₂ : The Existence of the Higher Hydrogen Peroxide of A N Sakh", K E Kruglyak ady Akad Nauk USSR 83: 593-596, No 4, 1952.	f the HO, Radical cove and N M Emanuel,
25X		Both authors are unknown to us. The paper is sponsore who is an outstanding authority on problems of chemics and it contains original concepts, but it lacks entire theoroughness. Conclusions are drawn from experiments the evidence of due precaution against errors. The pris not clear and seems rather biased. Although the at seem to be acquainted with some literature outside of they carefully omit to quote it.	sly in s without resentation uthors Russia,
II	I <u>Titl</u>	es and Evaluations of Soviet Papers in the Field of Pho	otography
1	. "Eff Emul USSF	sions", M V Chibisov, A A Titov, and A A Mikhailova, D. 78: 319-322, No 2, 1951.	
25	X1	This paper taken in itself is far too skatchy in deta allow adequate evaluation. The authors in previous p indicated that they are quite familiar with the gener theoretical ideas underlying their work, but judgment specific novel results claimed must be reserved until description of experimental methods is available. To been working in this field about six years. Chibisov Mikhailova have many more years' experience.	il to apers have al modern on the an adequate tov has and
2.	"Di Yu	Fausion of Silver and Bromine Ions in Solid Silver Brom Fausi, Doklady Akad Nauk USSR 80: 579-581, No 4, 1951.	
2	5X1	Originality, thoroughness and reliability are average ingenuity is above average. We do not know whether tare new or old to this field.	the authors
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	This work is insignificant. We have no knowledge of	of this author.
Ripen 217-2	tion of the Internal Centers Formed in Photolysis of ing Process", I M Ratner and A A <u>Titov</u> , Doklady Aks 20, No 2, 1951.	of Emulsions in the ad Nauk UBSR 80:
	The paper is an original contribution to the influe in the ripening stage on the sensitivity of the first the presentation lacks clarity, since results and are intermingled, but there seems to be no reason results, or to reject the interpretation.	nished emulsion. interpretation
5. "Spec Gorok 1951.	tral Sensitometry of Multilayer Photographic Color hovskii and O M Ponomarenko, Doklady Akad Nauk USSI	Material*, Yu N R 79: 591-593, No 4,
20/(1	This work is straightforward and fairly good, but thorough and indicates a lack of knowledge of many we have no previous reference to these authors.	of the problems.
6. "Ther Solut	mal Dependence of Viscosity of Photographic Emulsicions", M I Shor, J Appl Chem USSR 24: 748-753, No.	7, 1931.
25X1	This paper shows little originality, some ingenuit thoroughness and reliability. The author, so far relatively inexperienced in the field.	y, and questionable as we know, is
7. "Phot D Ya 1952.	Ographic Film having Visual Spectral Light Sensiti Martynov, and T I Smolko, Astronomical Journal USS	vity", A V <u>Borin,</u> R 29: 5-13, No 1,
25X1	Borin has been working on measurements of spectral etc, for some time. The data seem to be all right paper is fundamentally poor, showing a defect typi Russian work, namely, they have written an elaboration something which has been done at least as we note of the emulsions reproduces the sensitivity of any better than those which have been commercially for over twenty years, and none is a good enough is sensitivity to make any real difference in accuracy with visual stellar magnitudes.	i, but the ical of much ite paper about ill before. of the eye y available match for eye cy of comparison
-	stionship between the Maximum Light Bensitivity of Corresponding Fog Density and the Accumulation of S ning", I M Ratner, Doklady Akad Nauk USBR 84: 753	31TABL UPTFMA
25X1	This paper is average in all respects. The authorithe field.	
Comp	etics of Finishing of Photographic Emulsions and the counds", K V Chibisov, A A Titov, and A A Mikhailov 84: 547-550, No 3, 1952.	bonied man new
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